

SUPERCONDUCTIVE MICROSTRIP RESONATOR AND FILTER

ABSTRACT

The present invention discloses a U-type superconductive microstrip resonator and a filter corresponding to the same. The U-type superconductive microstrip resonator is an asymmetric U-type configuration formed by folding the superconductive microstrip, its total length is a half of the wavelength corresponding to the center frequency of the filter constituted by them. A filter can be constituted by a number of said U-type superconductive microstrip resonators as required. In this filter, these U-type microstrip resonators are arranged in parallel in a manner that the longer sides direct a same direction, or in a manner that every two adjacent U-type superconductive microstrip resonators are symmetric about an axis. The filter constituted by said U-type superconductive microstrip resonators can not only achieve the same specification as an open-loop superconductive microstrip filter with a same number of sections, but also achieve a smaller size than the open-loop superconductive microstrip filter.